CLAIMS

1. A cosmetic or pharmaceutical composition comprising, in a physiologically acceptable medium, at least one polymer comprising at least one monomeric compound of formula (I):

$$G-(X)_{p}-P$$
 O
 N
 O
 $R2$
 $X^{1}R_{3}$

10 in which:

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- the groups R2 and X'R3 are present on the same ring or each on a different ring;

- R2 and R3 represent, independently of each other, a hydrogen atom, a halogen or a linear, branched and/or cyclic, saturated and/or unsaturated carbon-based radical containing 1 to 30 carbon atoms; optionally substituted with one or more groups chosen from =0, OH, NH₂ and halogen atoms; and/or optionally interrupted with one or more heteroatoms chosen from O, N, P, Si and S;

X and X' represent, independently of each other, -O-, -S-, -SO-, -SO₂-, -NH- and -NR₄- with R₄ representing a linear, branched and/or cyclic, saturated and/or unsaturated carbon-based radical containing 1 to 30 carbon atoms, optionally substituted with one or more groups chosen from =O, OH, NH₂ and halogen atoms; and/or optionally interrupted with one or more heteroatoms chosen from O, N, P, Si and S;

- p is equal to 0 or 1

- G is a linear, branched and/or cyclic, saturated and/or unsaturated divalent carbon-based radical containing 1 to 30 carbon atoms, optionally substituted with one or more groups chosen from =0, OH, NH₂ and halogen atoms; and/or optionally interrupted with one or more heteroatoms chosen from O, N, P, Si and S;

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- P is a polymerizable group chosen from one of the following formulae:

in which:

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- R' represents H or a linear or branched, saturated C_{1-6} hydrocarbon-based radical,

n is equal to 0 or 1 and m is equal to 0 or 1.

- 2. The composition as claimed in claim 1, in which R2 is a hydrogen atom.
- 3. The composition as claimed in one of the preceding claims, in which, in the monomeric compound, R3 is a cyclic, linear and/or branched, saturated and/or unsaturated carbon-based and especially hydrocarbon-based radical, optionally comprising a hydrocarbon-based ring that is itself saturated and/or unsaturated, containing 2 to 18, especially 3 to 14 or even 6 to 12 carbon atoms, and may comprise at least one heteroatom, especially one, two or three nitrogen, sulfur and/or oxygen atoms.

4. The composition as claimed in one of the preceding claims, in which, in the monomeric compound, X'R3 is a radical -NH-(CH₂)_nH; -O-(CH₂)_nH, for example ethoxy or methoxy; -S-(CH₂)_nH, -SO-(CH₂)_nH or -SO₂-(CH₂)_nH with n being an integer between 1 and 30 and especially between 4 and 12; or alternatively C6-C18 -NH-cycloalkyl, especially -NH-cyclohexyl, -NH-cyclooctyl, -NH-cyclodecyl or -NH-cyclododecyl; or alternatively C6-C18 -S-cycloalkyl, C6-C18 -SO-cycloalkyl or C6-C18 -SO₂-cycloalkyl; or alternatively a radical chosen from the following:

CH ₃ CH ₃	<u></u> -o-
CH ₃	
CH ₃	
—NH-	-NH-NS
C_2H_5	N_CH ₃
s	_s-
	\$__\\$
0 = s = 0	0 ==0
s	0
-s-\\\^=	

- 5. The composition as claimed in one of the preceding claims, in which, in the monomeric compound, the divalent radical G is a linear, branched and/or cyclic, saturated or unsaturated divalent hydrocarbon-based radical optionally comprising a hydrocarbon-based ring that is itself saturated or unsaturated, containing in total 2 to 18 and especially 3 to 8 carbon atoms, optionally substituted with one or more groups chosen from =0, OH, NH₂ and halogen atoms; and/or optionally interrupted with one or more heteroatoms chosen from O, N, P, S and Si.
- 6. The composition as claimed in one of the preceding claims, in which, in the monomeric compound, G is chosen from linear or branched, saturated divalent hydrocarbon-based radicals optionally comprising a saturated hydrocarbon-based ring, containing in total 2 to 16 and especially 3 to 10 carbon atoms.

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The composition as claimed in one of the preceding in the monomeric compound, in which, claims, chosen from methylene, ethylene, n-propylene, (or 1-methylethylene isopropylene and 2-methyl-25 ethylene), n-butylene, isobutylene, pentylene, especially n-pentylene, hexylene, especially n-hexylene, or cyclohexylene, heptylene, octylene, cycloctylene, decylene, cyclodecylene, cyclohexyldimethylene, dodecylene, cyclododecylene.

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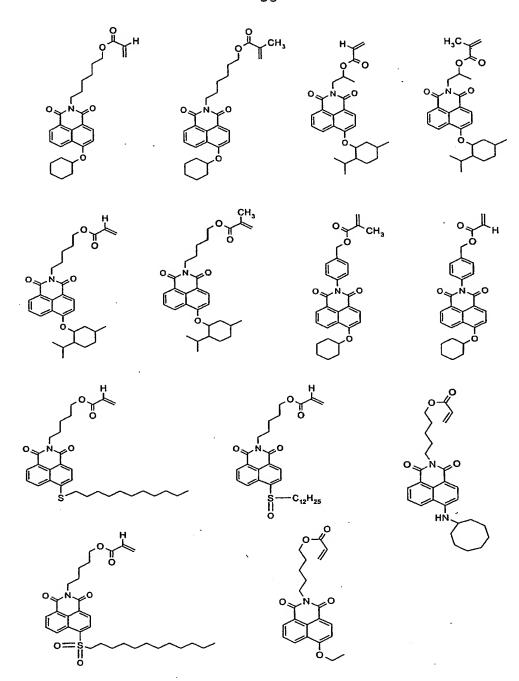
8. The composition as claimed in one of the preceding claims, in which, in the monomeric compound, X is chosen from -O-, -S-, -NH- or -NR₄-, preferentially O; and R4 preferentially represents a linear, branched and/or cyclic, saturated or unsaturated hydrocarbon-based radical containing 2 to 12 carbon atoms, optionally substituted with one or more groups chosen from = O, OH and NH₂.

9. The composition as claimed in one of the preceding claims, in which, in the monomeric compound, the polymerizable group P is chosen from one of the following formulae:

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in which R' represents H or methyl.

10 10. The composition as claimed in one of the preceding claims, in which the monomeric compound corresponds to one of the following formulae:



- 11. The composition as claimed in one of the preceding claims, in which the polymer is a homopolymer of a monomeric compound as defined in one of claims 1 to 10.
- 12. The composition as claimed in one of claims 1 to 10, in which the polymer is a copolymer comprising only monomeric compounds as defined in one of claims 1 to 10.

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13. The composition as claimed in one of claims 1 to 10, in which the polymer is a copolymer comprising at least one monomeric compound as defined in one of claims 1 to 10, and at least one additional comonomer.

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- 14. The composition as claimed in either of claims 12 to 13, in which the polymer is a statistical, alternating, grafted, block or gradient copolymer.
- 15. The composition as claimed in one of claims 12 to 14, in which the monomeric compound is present in an amount of from 0.01% to 70% by weight relative to the weight of said polymer, especially in an amount of from 0.1% to 50% by weight, in particular from 0.5% to 30% by weight, or even from 1% to 20% by weight and better still from 2% to 10% by weight, the additional comonomers, alone or as a mixture, representing the remainder to 100% by weight.
- 16. The composition as claimed in one of claims 12 to 15, in which the polymer comprises at least one additional comonomer with an optical effect chosen from the compounds of formula (A), (B) and/or (C):

$$Ra_{1}$$
 Ra_{2} Ra_{3} Ra_{2} Ra_{3}

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in which:

- Ral represents a linear, branched and/or cyclic, saturated and/or unsaturated carbon-based radical containing 1 to 32 carbon atoms; optionally substituted with one or more groups chosen from = O, OH, NH_2 and

halogen atoms; and/or optionally interrupted with one or more heteroatoms chosen from O, N, P, Si and S;

Rb1 is chosen from (i) a hydrogen atom, (ii) a halogen, (iii) a linear, branched and/or cyclic, saturated and/or unsaturated carbon-based radical containing 1 to 12 carbon atoms, optionally substituted with one or more groups chosen from = O, OH and NH2 and/or optionally interrupted with one heteroatoms chosen from O, N, P, Si and S; (iv) a group NRR' with R and R' being, independently of each other, a hydrogen atom or a linear, cyclic or branched, saturated C1-6 hydrocarbon-based radical, especially methyl, ethyl, propyl, isopropyl, n-butyl, isobutyl, tert-butyl, pentyl or hexyl;

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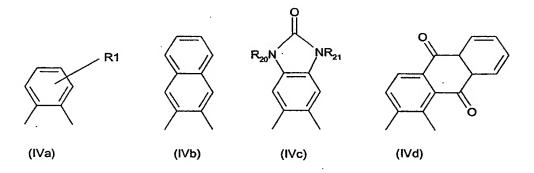
- Ra2 and Ra3, which are present on the same ring or each on a different ring, represent, independently of each other, a hydrogen, a halogen or a group of formula -Xa-Ga-Pa (II), with the proviso that at least one of the radicals Ra2 and/or Ra3 represents a group of formula (II), in which:
 - Xa is chosen from the groups -O-, -S-, -SO-, -SO₂-, -NH- and -NR₄- with R4 representing a linear, branched and/or cyclic, saturated and/or unsaturated carbon-based radical containing 1 to 30 carbon atoms, optionally substituted with one or more groups chosen from = O, OH, NH_2 and halogen atoms; and/or optionally interrupted with one or more heteroatoms chosen from O, N, P, Si and S;
- Ga is a linear, branched and/or cyclic, saturated and/or unsaturated divalent carbon-based radical containing 1 to 32 carbon atoms, optionally substituted with one or more groups chosen from = O, OH, NH₂ and halogen atoms; and/or optionally interrupted with one or more heteroatoms chosen from O, N, P, Si and S;
- 35 Pa is a polymerizable group chosen from one of the following formulae:

H

$$(CH_2)_n$$
 $(CH_2)_n$
 $(CH_2)_n$
 $(CH_2)_n$
 $(CH_2)_n$
 $(CH_2)_n$
 $(CH_2)_n$
 $(CH_2)_n$
 $(CH_2)_n$
 $(CH_2)_n$

in which:

- R' represents H or a linear or branched, saturated C1-6 hydrocarbon-based radical,
- 5 X' represents O, NH or NR" with R" representing a radical chosen from C1-6 alkyl, C6-10 aryl, (C6-10) aryl(C1-6) alkyl and (C1-6) alkyl(C6-10) aryl radicals, the alkyl and/or aryl groups also possibly being substituted with one or more groups chosen from OH, 10 halogen, C1-6 alkoxy and C6-10 aryloxy; and
 - m is equal to 0 or 1; n is equal to 0 or 1; p is equal to 0, 1 or 2;
 - B represents one of the following divalent aromatic groups (IVa) to (IVd):



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in which:

- R1 is a linear, branched and/or cyclic, saturated and/or unsaturated carbon-based radical containing 1 to 32 carbon atoms, optionally substituted with one or more groups chosen from = O, OH, NH_2 and halogen atoms;
- R20 and R21 are, independently of each other, a hydrogen atom, a linear or branched C1-8 alkyl radical or a cyclopentyl, cyclohexyl, cyclooctyl, cyclodecyl, cyclododecyl, benzyl, naphthyl or phenyl radical.

- 17. The composition as claimed in one of claims 12 to in which the polymer comprises at 16, least additional comonomer chosen, alone or as a mixture, from the following monomers:
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- (i) ethylenic hydrocarbons containing from 2 to 10 carbons, such as ethylene, isoprene or butadiene;
- (ii) the (meth) acrylates of formula:

10 $CH_2 = CHCOOR'_3$

in which R'3 represents:

- a linear or branched alkyl group of 1 to 18 carbon atoms, in which is (are) optionally intercalated one or more heteroatoms chosen from O, N, S and P; said alkyl group also possibly being optionally substituted with one or more substituents chosen from hydroxyl groups, halogen atoms (Cl, Br, I and F), and groups $Si(R_4R_5)$, in which R₄ and R₅, which may be identical or different, represent a C₁ to C₆ alkyl group or a phenyl group;
- R'₃ may especially be a methyl, ethyl, propyl, n-butyl, 20 isobutyl, tert-butyl, hexyl, ethylhexyl, octyl, lauryl, isooctyl, isodecyl, dodecyl, cyclohexyl, cyclohexyl or stearyl group; 2-ethylperfluorohexyl; or a C₁₋₄ hydroxyalkyl group such as 2-hydroxyethyl,
- 25 2-hydroxybutyl 2-hydroxypropyl; or (C_{1-4}) alkoxy (C_{1-4}) alkyl group such as methoxyethyl, ethoxyethyl or methoxypropyl,
 - a C_3 to C_{12} cycloalkyl group such as an isobornyl group,
- 30 - a C_3 to C_{20} aryl group such as a phenyl group,
 - a C_4 to C_{30} aralkyl group (C_1 to C_8 alkyl group) such as 2-phenylethyl, t-butylbenzyl or benzyl,
 - a 4- to 12-membered heterocyclic group containing one or more heteroatoms chosen from O, N and S, the ring
- being aromatic or non-aromatic, 35
 - a heterocycloalkyl group (1 to 4 C alkyl), such as

furfurylmethyl or tetrahydrofurfurylmethyl, said cycloalkyl, aryl, aralkyl, heterocyclic heterocycloalkyl groups possibly being optionally substituted with one or more substituents chosen from hydroxyl groups, halogen atoms and linear or branched alkvl groups in which is (are) optionally intercalated one or more heteroatoms chosen from O, N, and P, said alkyl groups also possibly being optionally substituted with one or more substituents chosen from hydroxyl groups, halogen atoms (Cl, Br, I 10 and F), and groups $Si(R_4R_5)$, in which R_4 and R_5 , which may be identical or different, represent a C1 to C6 alkyl group or a phenyl group,

- R'₃ may also be a group - $(C_2H_4O)_m$ -R", with m = 5 to 150 and R" = H or C_1 to C_{30} alkyl, for example -POE-methyl or -POE-behenyl;

- (iii) the (meth)acrylamides of formula:

$$H_2C=C$$
—CO-N R_2

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in which R_8 denotes H or methyl; and R_7 and R_6 , which may be identical or different, represent:

- a hydrogen atom; or

25 - a linear or branched alkyl group of 1 to 18 carbon atoms, in which is (are) optionally intercalated one or more heteroatoms chosen from O, N, S and P; said alkyl group also possibly being optionally substituted with one or more substituents chosen from hydroxyl groups,
30 halogen atoms (Cl, Br, I and F), and groups Si(R4R5), in which R4 and R5, which may be identical or different, represent a C1 to C6 alkyl group or a phenyl group; R6 and/or R7 may especially be a methyl, ethyl, propyl, n-butyl, isobutyl, tert-butyl, hexyl, ethylhexyl, octyl, lauryl, isooctyl, isodecyl, dodecyl, cyclohexyl, t-butylcyclohexyl
or stearyl group;

- 2-ethylperfluorohexyl; or a C_{1-4} hydroxyalkyl group such as 2-hydroxyethyl, 2-hydroxybutyl or 2-hydroxypropyl; or a (C_{1-4}) alkoxy (C_{1-4}) alkyl group such as methoxyethyl, ethoxyethyl or methoxypropyl,
- 5 a C_3 to C_{12} cycloalkyl group, such as an isobornyl group,
 - a C₃ to C₂₀ aryl group such as a phenyl group,
 - a C_4 to C_{30} aralkyl group (C_1 to C_8 alkyl group) such as 2-phenylethyl, t-butylbenzyl or benzyl,
- 10 a 4- to 12-membered heterocyclic group containing one or more heteroatoms chosen from O, N and S, the ring being aromatic or non-aromatic,
 - a heterocycloalkyl group (1 to 4 C alkyl), such as furfurylmethyl or tetrahydrofurfurylmethyl,
- 15 said cycloalkyl, aryl, aralkyl, heterocyclic heterocycloalkyl groups possibly being optionally substituted with one or more substituents chosen from hydroxyl groups, halogen atoms and linear or branched C₁-C₄ alkyl groups in which is (are) optionally
- intercalated one or more heteroatoms chosen from O, N, S and P, said alkyl groups also possibly being optionally substituted with one or more substituents chosen from hydroxyl groups, halogen atoms (Cl, Br, I and F) and groups $Si(R_4R_5)$, in which R_4 and R_5 , which
- 25 may be identical or different, represent a C_1 to C_6 alkyl group, or a phenyl group;
 - (iv) the vinyl compounds of formulae: $CH_2=CH-R_9$, $CH_2=CH-CH_2-R_9$ or $CH_2=C(CH_3)-CH_2-R_9$
- in which R_9 is a hydroxyl group, halogen (Cl or F), NH_2 , OR_{10} in which R_{10} represents a phenyl group or a C_1 to C_{12} alkyl group (the monomer is a vinyl or allylic ether); acetamide ($NHCOCH_3$); a group $OCOR_{11}$ in which R_{11} represents a linear or branched alkyl group of 2 to 12 carbons (the monomer is a vinyl or allylic ester); or a group chosen from:
 - a linear or branched alkyl group of 1 to 18 carbon atoms, in which is (are) optionally intercalated one or more heteroatoms chosen from O, N, S and P; said alkyl

group also possibly being optionally substituted with one or more substituents chosen from hydroxyl groups, halogen atoms (Cl, Br, I and F) and groups $Si(R_4R_5)$, in which R_4 and R_5 , which may be identical or different, represent a C_1 to C_6 alkyl group or a phenyl group;

- , a ${}^{\circ}\text{C}_3$ to ${}^{\circ}\text{C}_{12}$ cycloalkyl group such as isobornyl or cyclohexane,
 - a C₃ to C₂₀ aryl group such as phenyl,
- a C_4 to C_{30} aralkyl group (C_1 to C_8 alkyl group) such 10 as 2-phenylethyl; benzyl,
 - a 4- to 12-membered heterocyclic group containing one or more heteroatoms chosen from O, N and S, the ring being aromatic or non-aromatic,
- a heterocycloalkyl group (1 to 4 C alkyl), such as furfurylmethyl or tetrahydrofurfurylmethyl, said cycloalkyl, aryl, aralkyl, heterocyclic or

heterocycloalkyl groups possibly being optionally substituted with one or more substituents chosen from hydroxyl groups, halogen atoms and linear or branched 1

- to 4 C alkyl groups in which is (are) optionally intercalated one or more heteroatoms chosen from O, N, S and P, said alkyl groups also possibly being optionally substituted with one or more substituents chosen from hydroxyl groups, halogen atoms (Cl, Br, I
- and F) and groups $Si(R_4R_5)$ in which R_1 and R_2 , which may be identical or different, represent a C_1 to C_6 alkyl group, or a phenyl group;
- (v) (meth)acrylic, (meth)acrylamide or vinyl monomers
 30 containing a fluoro or perfluoro group, such as ethylperfluorooctyl or 2-ethylperfluorohexyl (meth)acrylate;
- (vi) silicone-based (meth)acrylic, (meth)acrylamide
 35 or vinyl monomers, such as methacryloxypropyltris(trimethylsiloxy)silane or acryloxypropylpolydimethylsiloxane;
 - (vii) ethylenically unsaturated monomers comprising

at least one carboxylic, phosphoric or sulfonic acid, or anhydride, function, for instance acrylic acid, methacrylic acid, crotonic acid, maleic anhydride, itaconic acid, fumaric acid, maleic acid, acrylamidopropanesulfonic acid, vinylbenzoic acid and vinylphosphoric acid, and the salts thereof;

- (viii) ethylenically unsaturated monomers comprising at least one tertiary amine function, for instance
 2-vinylpyridine, 4-vinylpyridine, dimethylaminoethyl methacrylate, diethylaminoethyl methacrylate or dimethylaminopropylmethacrylamide, and the salts thereof.
- 15 18. The composition as claimed in one of claims 12 to 17, in which the additional comonomer(s) is (are) present in an amount of from 30% to 99.99% by weight, especially in an amount of from 50% to 99.9% by weight, in particular from 70% to 99.5% by weight, or even from 20 80% to 99% by weight, and better still from 90% to 98% by weight, relative to the weight of the final polymer.
- The composition as claimed in one of claims 12 19. to 18, in which the additional comonomers are chosen, 25 alone or as a mixture, from C_1 - C_{18} alkyl or C_3 - C_{12} cycloalkyl (meth)acrylates, and especially from methyl acrylate, methyl methacrylate, isobornyl acrylate, isobornyl methacrylate, isobutyl acrylate, isobutyl methacrylate, 2-ethylhexyl acrylate, 2-ethylhexyl 30 methacrylate, dodecyl acrylate, dodecyl methacrylate, stearyl acrylate, stearyl methacrylate, trifluoroethyl acrylate and trifluoroethyl methacrylate; alternatively acid, acrylic acid, methacrylic methacryloxypropyltris(trimethylsiloxy)silane, oxypropyltris(trimethylsiloxy)silane, acryloxypropyl-35 polydimethylsiloxane and methacryloxypropylpolydimethylsiloxane.
 - 20. The composition as claimed in one of the preceding

claims, in which the polymer has a weight-average molecular mass (Mw) of between 5000 and 600 000 g/mol, especially between 10 000 and 300 000 g/mol and better still between 20 000 and 150 000 g/mol.

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- 21. The composition as claimed in one of the preceding claims, in which the polymer is present, alone or as a mixture, in an amount of from 0.01% to 60% by weight, preferably 0.1% to 50% by weight, especially 1% to 25% by weight or even 3% to 15% by weight and better still 5% to 12% by weight, relative to the total weight of the composition.
- 22. The composition as claimed in one of the preceding claims, in which the physiologically acceptable medium comprises a hydrophilic medium comprising water or a water/hydrophilic organic solvent(s) mixture and/or comprises a fatty phase.
- 20 23. The composition as claimed in one of the preceding claims, in which the fatty phase comprises waxes, pasty fatty substances, gums, lipophilic organic solvents and oils, and/or mixtures thereof.
- 25 24. The composition as claimed in one of the preceding claims, also comprising a particulate phase that may comprise pigments and/or nacres and/or fillers.
- 25. The composition as claimed in one of the preceding 30 claims, comprising dyestuffs chosen from water-soluble dyes and/or liposoluble dyes.
 - 26. The composition as claimed in one of the preceding claims, comprising at least one additional polymer such as a film-forming polymer.
 - 27. The composition as claimed in one of the preceding claims, comprising at least one ingredient chosen from vitamins, thickeners, gelling agents, trace elements,

softeners, sequestrants, fragrances, acidifying or basifying agents, preserving agents, sunscreens, surfactants, antioxidants, hair-loss counteractants, antidandruff agents, propellants and ceramides, or mixtures thereof.

- 28. The composition as claimed in one of the preceding in the form of a suspension, which is dispersion especially of oil in water by means of vesicles; an optionally thickened or even gelled oily 10 solution; an oil-in-water, water-in-oil or multiple emulsion; a gel or a mousse; an oily or emulsified gel; a dispersion of vesicles, especially lipid vesicles; a two-phase or multi-phase lotion; a spray; a loose, 15 compact or cast powder; an anhydrous paste; a lotion, a cream, a pomade, a soft paste, an ointment, a cast or molded solid especially as a stick or in a dish, or alternatively a compacted solid.
- 29. The composition as claimed in one of the preceding claims, which is in the form of a care and/or makeup product for bodily or facial skin, the lips, the nails, the eyelashes, the eyebrows and/or the hair, an antisun or self-tanning product, or a hair product for caring for, treating, shaping, making up or dyeing the hair.
- 30. The composition as claimed in one of the preceding claims, which is in the form of a makeup composition, especially a complexion product such as a foundation, a makeup rouge or an eyeshadow; a lip product such as a lipstick or a lipcare product; a concealer product; a blusher, a mascara or an eyeliner; an eyebrow makeup product, a lip pencil or an eye pencil; a nail product such as a nail varnish or a nailcare product; a body makeup product; a hair makeup product (hair mascara or hair lacquer); a composition for protecting or caring for the skin of the face, the neck, the hands or the body, especially an antiwrinkle composition or a moisturizing or treating composition; an antisun or

artificial tanning composition; a hair product, especially for dyeing, holding the hairstyle, shaping the hair, caring for, treating or cleansing the hair, such as shampoos, hairsetting gels or lotions, blowdrying lotions, and fixing and styling compositions such as lacquers or sprays.

- 31. A cosmetic process for making up or caring for keratin materials, especially bodily or facial skin, 10 the lips, the nails, the eyelashes, the eyebrows and/or the hair, comprising the application to said materials of a cosmetic composition as defined in any one of claims 1 to 30.
- 15 32. A monomeric compound of formula (I):

in which:

- 20 the groups R2 and X'R3 are present on the same ring or each on a different ring;
 - R2 and R3 represent, independently of each other, a hydrogen atom, a halogen or a linear, branched and/or cyclic, saturated and/or unsaturated carbon-based radical, containing 1 to 30 carbon atoms; optionally substituted with one or more groups chosen from =0, OH, NH₂ and halogen atoms; and/or optionally interrupted with one or more heteroatoms chosen from O, N, P, Si and S;

- X and X' represent independently of one another -O-, -S-, -SO-, -SO₂-, -NH- and -NR₄- groups with R₄ representing a linear, branched and/or cyclic, saturated and/or unsaturated carbon-based radical containing 1 to 30 carbon atoms, optionally substituted with one or more groups chosen from =O, OH, NH₂ and halogen atoms; and/or optionally interrupted with one or more heteroatoms chosen from O, N, P, Si and S;

10 p is equal to 0 or 1,

- G is a linear, branched and/or cyclic, saturated and/or unsaturated divalent carbon-based radical, containing 1 to 30 carbon atoms, optionally substituted with one or more groups chosen from =O, OH, NH₂ and halogen atoms; and/or optionally interrupted with one or more heteroatoms chosen from O, N, P, Si and S;
- P is a polymerizable group chosen from one of the 20 following formulae:

in which:

- 25 R' represents H or a linear or branched, saturated C1-6 hydrocarbon-based radical,
 - m is equal to 0 or 1; given that:
- when R2 = H and simultaneously P is of formula 30 (IIIb), then X'R3 is other than OCH_3 ;
 - when R2 = H and simultaneously P is of formula (IIIa), and X is equal to O, NH or NR_4 , and X' is equal

- to O, S or NR₄, then R3 is chosen from (i) optionally substituted and/or optionally interrupted saturated, linear or branched C2-C5 or C7-C24 alkyl radicals and (ii) optionally substituted and/or optionally interrupted saturated cyclic C5-C18 alkyl radicals.
- 33. The monomeric compound as claimed in claim 32, in which R2 is a hydrogen atom.
- 10 34. The monomeric compound as claimed in either of claims 32 and 33, in which R3 is a cyclic, linear and/or branched, saturated and/or unsaturated carbon-based and especially hydrocarbon-based radical, optionally comprising a hydrocarbon-based ring that is itself saturated and/or unsaturated, containing 2 to 18, especially 3 to 14 or even 6 to 12 carbon atoms, and may comprise at least one heteroatom, especially one, two or three nitrogen, sulfur and/or oxygen atoms.
- 20 The monomeric compound as claimed in one of claims 32 to 34, in which X'R3 is a radical -NH-(CH₂)_nH; $-O-(CH_2)_nH$, for example ethoxy or methoxy; $-S-(CH_2)_nH$, -SO-(CH₂)_nH or -SO₂-(CH₂)_nH with n being an integer between 1 and 30 and especially between 4 and 12; or alternatively C6-C18 -NH-cycloalkyl, 25 -NH-cyclohexyl, -NH-cyclooctyl, -NH-cyclodecyl or -NH-cyclododecyl; or alternatively C6-C18 -S-C6-C18 -SO-cycloalkyl cycloalkyl, or C6-C18 -SO₂cycloalkyl; or alternatively a radical chosen from the following: 30

CH ₃ CH ₃	<u> </u>
CH ₃	→ N
—NH-	-NH-
N_C ₂ H ₅	CH ₃
s	_s_
S- 0	
0 	O
s	
-s-\(\ni_{\rightarrow}^{N=}\)	

The monomeric compound as claimed in one of claims 32 to 35, in which the divalent radical G is a linear, branched and/or cyclic, saturated unsaturated divalent hydrocarbon-based radical optionally comprising a hydrocarbon-based ring that is itself saturated or unsaturated, containing in total 2 to 18 and especially 3 to 8 carbon atoms, optionally substituted with one or more groups chosen from =0, OH, 10 NH₂ and halogen atoms; and/or optionally interrupted with one or more heteroatoms chosen from O, N, P, S and Si.

- 37. The monomeric compound as claimed in one of claims 32 to 36, in which G is chosen from linear or branched, saturated divalent hydrocarbon-based radicals optionally comprising a saturated hydrocarbon-based ring, containing in total 2 to 16 and especially 3 to 10 carbon atoms.
- as claimed in one monomeric compound 10 claims 32 to 37, in which G is chosen from methylene, ethylene, n-propylene, isopropylene 1-methylethylene and 2-methylethylene), n-butylene, isobutylene, pentylene, especially n-pentylene, hexylene, especially n-hexylene or cyclohexylene, 15 heptylene, octylene, cyclooctylene, decylene, cyclohexyldimethylene, cyclodecylene, dodecylene, cyclododecylene.
- 39. The monomeric compound as claimed in one of claims 20 32 to 38, in which X is chosen from -O-, -S-, -NH- and -NR₄-, preferentially O; and R4 preferentially represents a linear, branched and/or cyclic, saturated or unsaturated hydrocarbon-based radical containing 2 to 12 carbon atoms, optionally substituted with one or more groups chosen from = O, OH and NH₂.
 - 40. The monomeric compound as claimed in one of claims 32 to 39, in which the polymerizable group P is of formula:

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in which R' represents H or methyl.

41. The monomeric compound as claimed in one of claims 32 to 40, corresponding to formula (I) in which:

- R2 is hydrogen, X' is O, NH or NR_4 , and R3 is a linear, branched and/or cyclic, saturated and/or unsaturated carbon-based radical containing 2 to 12 carbon atoms; and/or
- G is a linear, branched and/or cyclic, saturated and/or unsaturated divalent carbon-based radical containing 1 to 8 carbon atoms.
- 42. The monomeric compound as claimed in one of claims 32 to 40, corresponding to one of the following formulae:

- 43. A polymer comprising at least one monomeric compound as defined in one of claims 32 to 42.
- 44. The polymer as claimed in claim 43, characterized in that it is a homopolymer of a monomeric compound as defined in one of claims 32 to 42.
- 45. The polymer as claimed in claim 43, characterized in that it is a copolymer comprising only monomeric compounds as defined in one of claims 32 to 42.
- 46. The polymer as claimed in claim 45, characterized in that the monomeric compounds are each present in a proportion of from 0.5% to 99.5% by weight, especially 5% to 95% by weight, or even 10% to 90% by weight and better still each in a proportion of from 30% to 70% by weight, relative to the total weight of the polymer.
- 47. The polymer as claimed in claim 43, characterized 20 in that it is a copolymer comprising at least one monomeric compound as defined in one of claims 32 to 42, and at least one additional comonomer.
- 48. The polymer as claimed in claim 47, characterized in that it is a statistical, alternating, grafted, block or gradient copolymer.
- The polymer as claimed in either of claims 47 and 49. 48, characterized in that the monomeric compound is 30 present in an amount of from 0.01% to 70% by weight relative to the weight of said polymer, especially in an amount of from 0.1% to 50% by weight, in particular from 0.5% to 30% by weight, or even from 1% to 20% by weight and better still from 2% to 10% by weight, the 35 additional comonomers, alone oras а mixture, representing the remainder to 100% by weight.
 - 50. The polymer as claimed in one of claims 47 to 49, characterized in that it comprises at least one

additional comonomer with an optical effect chosen from the compounds of formula (A), (B) and/or (C):

$$Ra_{1}$$
 Ra_{2} Ra_{3} Ra_{2} Ra_{3} Ra_{2} Ra_{3} Ra_{2} Ra_{3} Ra_{2} Ra_{3} Ra_{2} Ra_{3}

in which:

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- Ral represents a linear, branched and/or cyclic, saturated and/or unsaturated carbon-based radical containing 1 to 32 carbon atoms; optionally substituted with one or more groups chosen from = O, OH, NH₂ and halogen atoms; and/or optionally interrupted with one or more heteroatoms chosen from O, N, P, Si and S;
- Rb1 is chosen from (i) a hydrogen atom, (ii) a a linear, branched halogen, (iii) and/or cyclic, saturated and/or unsaturated carbon-based radical containing 1 to 12 carbon atoms, optionally substituted with one or more groups chosen from = O, OH and NH_2 optionally interrupted with one and/or or more heteroatoms chosen from O, N, P, Si and S; (iv) a group NRR' with R and R' being, independently of each other, a hydrogen atom or a linear, cyclic or branched, saturated C1-6 hydrocarbon-based radical, especially methyl, ethyl, propyl, isopropyl, n-butyl, isobutyl, tert-butyl, pentyl or hexyl;
- Ra2 and Ra3, which are present on the same ring or each on a different ring, represent, independently of each other, a hydrogen, a halogen or a group of formula -Xa-Ga-Pa (II), with the proviso that at least one of the radicals Ra2 and/or Ra3 represents a group of formula (II), in which:
- Xa is chosen from the groups -O-, -S-, -SO-, -SO $_2$ -30 , -NH- and -NR $_4$ with R4 representing a linear, branched and/or cyclic, saturated and/or unsaturated

carbon-based radical containing 1 to 30 carbon atoms, optionally substituted with one or more groups chosen from = O, OH, NH_2 and halogen atoms; and/or optionally interrupted with one or more heteroatoms chosen from O, N, P, Si and S;

- Ga is a linear, branched and/or cyclic, saturated and/or unsaturated divalent carbon-based radical containing 1 to 32 carbon atoms, optionally substituted with one or more groups chosen from = 0, OH, NH_2 and halogen atoms; and/or optionally interrupted with one or more heteroatoms chosen from 0, N, P, Si and S;
- Pa is a polymerizable group chosen from one of the following formulae:

H
$$R'$$
 H $CH_2)_n$ $CH_2)_p$ $CH_$

15 in which:

- R' represents H or a linear or branched, saturated C1-6 hydrocarbon-based radical,
- X' represents O, NH or NR" with R" representing a radical chosen from C1-6 alkyl, C6-10 aryl, (C6-20 10)aryl(C1-6)alkyl and (C1-6)alkyl(C6-10)aryl radicals, the alkyl and/or aryl groups also possibly being substituted with one or more groups chosen from OH, halogen, C1-6 alkoxy and C6-10 aryloxy; and
- m is equal to 0 or 1; n is equal to 0 or 1; p is 25 equal to 0, 1 or 2;
 - B represents one of the following divalent aromatic groups (IVa) to (IVd):

in which:

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- R1 is a linear, branched and/or cyclic, saturated and/or unsaturated carbon-based radical containing 1 to 32 carbon atoms, optionally substituted with one or more groups chosen from = O, OH, NH₂ and halogen atoms;
- R20 and R21 are, independently of each other, a hydrogen atom, a linear or branched C1-8 alkyl radical or a cyclopentyl, cyclohexyl, cyclooctyl, cyclodecyl, cyclododecyl, benzyl, naphthyl or phenyl radical.
- 51. The polymer as claimed in one of claims 47 to 50, characterized in that it comprises at least one additional hydrophilic comonomer, or a mixture of such comonomers, which may be present in a proportion of from 1% to 99.99% by weight, especially 2-70% by weight, better still 5-50% by weight or even 10-30% by weight, relative to the total weight of the copolymer.
- 52. The polymer as claimed in one of claims 47 to 50, characterized in that it comprises at least one additional hydrophobic comonomer, or a mixture of such comonomers, which may be present in a proportion of from 1% to 99.99% by weight, especially 30-98% by weight, better still 50-95% by weight or even 70-90% by weight, relative to the total weight of the copolymer.
- 53. The polymer as claimed in one of claims 47 to 52, characterized in that it comprises at least one 30 additional comonomer chosen, alone or as a mixture, from the following monomers:

- (i) ethylenic hydrocarbons containing from 2 to 10 carbons, such as ethylene, isoprene or butadiene;
- 5 (ii) the (meth)acrylates of formula:

 $CH_2 = CHCOOR'_3$

in which R'3 represents:

- a linear or branched alkyl group of 1 to 18 carbon atoms, in which is (are) optionally intercalated one or more heteroatoms chosen from O, N, S and P; said alkyl group also possibly being optionally substituted with one or more substituents chosen from hydroxyl groups, halogen atoms (Cl, Br, I and F), and groups $Si(R_4R_5)$, in which R_4 and R_5 , which may be identical or different,

represent a C₁ to C₆ alkyl group or a phenyl group;
R'₃ may especially be a methyl, ethyl, propyl, n-butyl,
isobutyl, tert-butyl, hexyl, ethylhexyl, octyl, lauryl,
isooctyl, isodecyl, dodecyl, cyclohexyl, t-butylcyclohexyl or stearyl group; 2-ethylperfluorohexyl; or

- 20 a C_{1-4} hydroxyalkyl group such as 2-hydroxyethyl, 2-hydroxybutyl or 2-hydroxypropyl; or a (C_{1-4}) alkoxy (C_{1-4}) alkyl group such as methoxyethyl, ethoxyethyl or methoxypropyl,
- a $\ensuremath{C_3}$ to $\ensuremath{C_{12}}$ cycloalkyl group such as an isobornyl group,
 - a C_3 to C_{20} aryl group such as a phenyl group,
 - a C_4 to C_{30} aralkyl group (C_1 to C_8 alkyl group) such as 2-phenylethyl, t-butylbenzyl or benzyl,
- a 4- to 12-membered heterocyclic group containing one
 or more heteroatoms chosen from O, N and S, the ring being aromatic or non-aromatic,
 - a heterocycloalkyl group (1 to 4 C alkyl), such as furfurylmethyl or tetrahydrofurfurylmethyl,
- said cycloalkyl, aryl, aralkyl, heterocyclic or 35 heterocycloalkyl groups possibly being optionally substituted with one or more substituents chosen from

hydroxyl groups, halogen atoms and linear or branched C_{1-4} alkyl groups in which is (are) optionally intercalated one or more heteroatoms chosen from O, N, S and P, said alkyl groups also possibly being optionally substituted with one or more substituents chosen from hydroxyl groups, halogen atoms (Cl, Br, I and F), and groups $Si(R_4R_5)$, in which R_4 and R_5 , which may be identical or different, represent a C_1 to C_6 alkyl group or a phenyl group,

10 - R'₃ may also be a group - $(C_2H_4O)_m$ -R", with m = 5 to 150 and R" = H or C_1 to C_{30} alkyl, for example -POE-methyl or -POE-behenyl;

- (iii) the (meth)acrylamides of formula:

$$H_2C=C$$
— $CO-N$

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in which R_8 denotes H or methyl; and R_7 and $R_6,\ which may be identical or different, represent:$

20 - a hydrogen atom; or

- a linear or branched alkyl group of 1 to 18 carbon atoms, in which is (are) optionally intercalated one or more heteroatoms chosen from O, N, S and P; said alkyl group also possibly being optionally substituted with one or more substituents chosen from hydroxyl groups, halogen atoms (Cl, Br, I and F), and groups $Si(R_4R_5)$, in which R_4 and R_5 , which may be identical or different, represent a C1 to C6 alkyl group or a phenyl group; R₆ and/or R₇ may especially be a methyl, ethyl, propyl, n-butyl, isobutyl, tert-butyl, hexyl, ethylhexyl, octyl, lauryl, isooctyl, isodecyl, dodecyl, cyclohexyl, t-butylcyclohexyl or stearyl 2-ethylperfluorohexyl; or a C_{1-4} hydroxyalkyl group such as 2-hydroxyethyl, 2-hydroxybutyl or 2-hydroxypropyl;

or a (C_{1-4}) alkoxy (C_{1-4}) alkyl group such as methoxyethyl, ethoxyethyl or methoxypropyl,

- a C_3 to C_{12} cycloalkyl group, such as an isobornyl group,
- a C₃ to C₂₀ aryl group such as a phenyl group,
- a C_4 to C_{30} aralkyl group (C_1 to C_8 alkyl group) such as 2-phenylethyl, t-butylbenzyl or benzyl,
- a 4- to 12-membered heterocyclic group containing one or more heteroatoms chosen from O, N and S, the ring being aromatic or non-aromatic,
- a heterocycloalkyl group (1 to 4 C alkyl), such as furfurylmethyl or tetrahydrofurfurylmethyl, 10 cycloalkyl, aryŀ, aralkyl, heterocyclic heterocycloalkyl groups possibly being optionally substituted with one or more substituents chosen from hydroxyl groups, halogen atoms and linear or branched 15 alkyl groups in which is (are) optionally intercalated one or more heteroatoms chosen from O, N, and P, said alkyl groups also possibly being optionally substituted with one or more substituents chosen from hydroxyl groups, halogen atoms (Cl, Br, I 20 and F) and groups $Si(R_4R_5)$, in which R_4 and R_5 , which may be identical or different, represent a C_1 to C_6
 - (iv) the vinyl compounds of formulae:

alkyl group, or a phenyl group;

- 25 CH₂=CH-R₉, CH₂=CH-CH₂-R₉ or CH₂=C(CH₃)-CH₂-R₉ in which R₉ is a hydroxyl group, halogen (Cl or F), NH₂, OR₁₀ in which R₁₀ represents a phenyl group or a C₁ to C₁₂ alkyl group (the monomer is a vinyl or allylic ether); acetamide (NHCOCH₃); a group OCOR₁₁ in which R₁₁ represents a linear or branched alkyl group of 2 to 12 carbons (the monomer is a vinyl or allylic ester); or a group chosen from:
- a linear or branched alkyl group of 1 to 18 carbon atoms, in which is (are) optionally intercalated one or more heteroatoms chosen from O, N, S and P; said alkyl group also possibly being optionally substituted with one or more substituents chosen from hydroxyl groups, halogen atoms (Cl, Br, I and F) and groups $Si(R_4R_5)$, in which R_4 and R_5 , which may be identical or different,

- represent a C1 to C6 alkyl group or a phenyl group;
- a C_3 to C_{12} cycloalkyl group such as isobornyl or cyclohexane,
- a C₃ to C₂₀ aryl group such as phenyl,
- 5 a C_4 to C_{30} aralkyl group (C_1 to C_8 alkyl group) such as 2-phenylethyl; benzyl,
 - a 4- to 12-membered heterocyclic group containing one or more heteroatoms chosen from O, N and S, the ring being aromatic or non-aromatic,
- 10 a heterocycloalkyl group (1 to 4 C alkyl), such as furfurylmethyl or tetrahydrofurfurylmethyl,
 - said cycloalkyl, aryl, aralkyl, heterocyclic or heterocycloalkyl groups possibly being optionally substituted with one or more substituents chosen from
- hydroxyl groups, halogen atoms and linear or branched 1 to 4 C alkyl groups in which is (are) optionally intercalated one or more heteroatoms chosen from O, N, S and P, said alkyl groups also possibly being optionally substituted with one or more substituents
- chosen from hydroxyl groups, halogen atoms (Cl, Br, I and F) and groups $Si(R_4R_5)$ in which R_1 and R_2 , which may be identical or different, represent a C_1 to C_6 alkyl group, or a phenyl group;
- 25 (v) (meth)acrylic, (meth)acrylamide or vinyl monomers containing a fluoro or perfluoro group, such as ethylperfluorooctyl or 2-ethylperfluorohexyl (meth)acrylate;
- or vinyl monomers, such as methacryloxypropyltris(trimethylsiloxy)silane or acryloxypropylpolydimethylsiloxane;
- (vii) ethylenically unsaturated monomers comprising at least one carboxylic, phosphoric or sulfonic acid, or anhydride, function, for instance acrylic acid, methacrylic acid, crotonic acid, maleic anhydride, itaconic acid, fumaric acid, maleic acid,

acrylamidopropanesulfonic acid, vinylbenzoic acid and vinylphosphoric acid, and the salts thereof;

- (viii) ethylenically unsaturated monomers comprising at least one tertiary amine function, for instance 2-vinylpyridine, 4-vinylpyridine, dimethylaminoethyl methacrylate, diethylaminoethyl methacrylate or dimethylaminopropylmethacrylamide, and the salts thereof.

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- 54. The polymer as claimed in claim 53, characterized in that the additional comonomer(s) is (are) present in an amount of from 30% to 99.99% by weight, especially in an amount of from 50% to 99.9% by weight, in particular from 70% to 99.5% by weight or even from 80% to 99% by weight and better still from 90% to 98% by weight relative to the weight of the final polymer.
- The polymer as claimed in one of claims 47 to 54, 55. characterized in that the additional comonomers are 20 chosen, alone or as a mixture, from C_1 - C_{18} alkyl or C_3 -C₁₂ cycloalkyl (meth)acrylates, and especially from methyl acrylate, methyl methacrylate, isobornyl acrylate, isobornyl methacrylate, isobutyl acrylate, 25 methacrylate, 2-ethylhexyl isobutyl acrylate, 2-ethylhexyl methacrylate, dodecyl acrylate, dodecyl methacrylate, stearyl acrylate, stearyl methacrylate, trifluoroethyl acrylate and trifluoroethyl methacrylate; or alternatively acrylic acid, methacrylic acid, 30 methacryloxypropyltris(trimethylsiloxy) silane, acryloxypropyltris(trimethylsiloxy) acryloxypropylpolydimethylsiloxane and methacryloxypropylpolydimethylsiloxane.
- 56. The polymer as claimed in one of claims 47 to 55, characterized in that it has a weight-average molecular mass (Mw) of between 5000 and 600 000 g/mol, especially between 10 000 and 300 000 g/mol and better still between 20 000 and 150 000 g/mol.

57. The use of at least one monomeric compound as defined in one of claims 32 to 42, or of at least one polymer as defined in one of claims 43 to 56, in a composition, for giving said composition optical effects, especially fluorescence or optical-brightening effects.